

# **FRACTURE TOUGHNESS and SLOW-STABLE CRACKING**

*Proceedings of the  
1973 National Symposium  
on Fracture Mechanics,  
PART I*

**ASTM STP 559**

**AMERICAN SOCIETY FOR TESTING AND MATERIALS**

# FRACTURE TOUGHNESS AND SLOW-STABLE CRACKING

Proceedings of the 1973  
National Symposium on  
Fracture Mechanics, Part I

A symposium sponsored by  
Committee E-24 on  
Fracture Testing of Metals,  
AMERICAN SOCIETY FOR  
TESTING AND MATERIALS  
University of Maryland,  
College Park, Md., 27-29 Aug. 1973

ASTM SPECIAL TECHNICAL PUBLICATION 559

P. C. Paris, chairman of symposium committee

G. R. Irwin, general chairman of symposium

List price \$25.25

04-559000-30



AMERICAN SOCIETY FOR TESTING AND MATERIALS  
1916 Race Street, Philadelphia, Pa. 19103

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Library of Congress Catalog Card Number: 74-81154

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Printed in Baltimore, Md.  
August 1974

## Foreword

The 1973 National Symposium on Fracture Mechanics was held at the University of Maryland Conference Center, College Park, Md., 27–29 Aug. 1973. The symposium was sponsored by the American Society for Testing and Materials through Committee E-24 on Fracture Testing of Metals. Members of the Symposium Subcommittee of Committee E-24 selected papers for the program. Organizational assistance from Don Wisdom and Jane Wheeler at ASTM Headquarters was most helpful. G. R. Irwin, Dept. of Mechanical Engineering, University of Maryland, served as general chairman. Those who served as session chairmen were H. T. Corten, Dept. of Theoretical and Applied Mechanics, University of Illinois; C. M. Carman, Frankford Arsenal; J. R. Rice, Div. of Engineering, Brown University; D. E. McCabe, Research Dept., ARMCO Steel; J. E. Srawley, Fracture Section, Lewis Research Center, NASA; E. T. Wessel, Research and Development Center, Westinghouse Electric Corp.; and E. K. Walker, Lockheed-California Co.

The Proceedings have been divided into two volumes: Part I—*Fracture Toughness and Slow-Stable Cracking* and Part II—*Fracture Analysis*.

## **Related ASTM Publications**

**Stress Analysis and Growth of Cracks, STP 513 (1972), \$27.50  
04-513000-30**

**Fracture Toughness, STP 514 (1972), \$18.75 04-514000-30**

**Fracture Toughness Evaluation by R-Curve Methods, STP 527 (1973),  
\$9.75 04-527000-30**

**Progress in Flaw Growth and Fracture Toughness Testing, STP 536  
(1973), \$33.25 04-536000-30**

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